CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.15/BNMK/CSR-7/867c/CEMENT/2015-16 Date: 08.07.2015

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer**, T. Dasarahalli Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. B.N. Mohankumar Nanjanappa,** No.04, 2nd Cross, Agrahara, Dasarahalli, Bangalore.
*NAME OF THE WORK	:	Improvements and construction of cc road & drain & RCC culverts at near Chikkegowda house 6th & 7th cross and parallel roads MTS Colony in Dasarahalli Ward No.15, BBMP, Bangalore.
*REFERENCE	:	BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 06.07.2015
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	06.07.2015
PERIOD OF TESTING	:	06.07.2015 to 08.07.2015

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	475 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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Chief Executive Officer

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Job No.: CTCE/BBMP/W.No.15/BNMK/CSR-7/867c/SAND-Gradation/2015-16 : 08.07.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

* Agency : **Mr. B.N. Mohankumar Nanjanappa,**
No.04, 2nd Cross, Agrahara, Dasarahalli, Bangalore.

* Name of Work : Improvements and construction of cc road & drain & RCC culverts at near Chikkegowda house 6th & 7th cross and parallel roads MTS Colony in Dasarahalli Ward No.15, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 06.07.2015

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 06.07.2015

Date of Testing : 08.07.2015

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	92.50	90-100	90-100	90-100	95-100
2.36	73.90	60-95	75-100	85-100	95-100
1.18	54.70	30-70	55-90	75-100	90-100
600 Micron	29.50	15-34	35-59	60-79	80-100
300 Micron	14.50	5-20	8-30	12-40	15-50
150 Micron	5.00	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.15/BNMK/CSR-7/867c/AGG/GR/2015-16 : 08.07.2015

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. B.N. Mohankumar Nanjanappa,** No.04, 2nd Cross, Agrahara, Dasarahalli, Bangalore.
* Name of Work	: Improvements and construction of cc road & drain & RCC culverts at near Chikkegowda house 6th & 7th cross and parallel roads MTS Colony in Dasarahalli Ward No.15, BBMP, Bangalore.
Reference	: BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 06.07.2015
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (40mm)
Sample Received on	: 06.07.2015
Date of Testing	: 08.07.2015

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.50	95-100	85-100
20	46.27	30-70	0-20
10	19.75	10-35	0-5
4.75	3.52	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No.15/BNMK/CSR-7/867c/CC Solid Block/2015-16 : 10.07.2015

TEST REPORT ON SOLID CONCRETE BLOCKS

* Customer	: **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. B.N. Mohankumar Nanjanappa,** No.04, 2nd Cross, Agrahara, Dasarahalli, Bangalore.
* Name of the Work	: Improvements and construction of cc road & drain & RCC culverts at near Chikkegowda house 6th & 7th cross and parallel roads MTS Colony in Dasarahalli Ward No.15, BBMP, Bangalore.
Reference	: BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 06.07.2015
Sample Received on	: 06.07.2015
Date of Testing	: 10.07.2015
Size of Blocks	: 400mm x 200mm x 200mm
Cross Sectional Area	: 80000 mm^2
Technical Reference	: IS: 2185 (Part 1) - 2005
No. of Blocks Tested	: 08

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	36.25	258.2	3.23	Minimum required Compressive Strength of Individual Units 3.20 N/mm^2
2	Block 2	34.33	259.3	3.24	
3	Block 3	35.62	260.1	3.25	
4	Block 4	36.25	261.2	3.27	
5	Block 5	35.12	262.2	3.28	
6	Block 6	36.20	263.1	3.29	
7	Block 7	35.21	262.5	3.28	
8	Block 8	36.25	260.8	3.26	

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Job No.: CTCE/BBMP/W.No.15/BNMK/CSR-7/867c/CUBE/2015-16 21.08.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. B.N. Mohankumar Nanjanappa,** No.04, 2nd Cross, Agrahara, Dasarahalli, Bangalore.
* Name of the work	: Improvements and construction of cc road & drain & RCC culverts at near Chikkegowda house 6th & 7th cross and parallel roads MTS Colony in Dasarahalli Ward No.15, BBMP, Bangalore.
* Reference	: BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 06.07.2015
* Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{15}
Compressive Strength as on	: 28th day
Sample Received on	: 24.07.2015

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.07.2015	21.08.2015	8.126	350.3	15.57
2	24.07.2015	21.08.2015	8.255	360.5	16.02
3	24.07.2015	21.08.2015	8.398	368.5	16.38

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Job No.: CTCE/BBMP/W.No.15/BNMK/CSR-7/867c/Pre Cast Slab/2015-16 30.07.2015

TEST REPORT ON CONCRETE CORE (PRE CAST SLAB)

* Name of Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Name of Agency	:	**Mr. B.N. Mohankumar Nanjanappa,** No.04, 2nd Cross, Agrahara, Dasarahalli, Bangalore.
* Name of work	:	Improvements and construction of cc road & drain & RCC culverts at near Chikkegowda house 6th & 7th cross and parallel roads MTS Colony in Dasarahalli Ward No.15, BBMP, Bangalore.
Reference	:	BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 06.07.2015
Techinical Reference	:	IS:516-1959 (Reaffirmed 2008), SP-24:1983.
Sample ID	:	Pre cast slab
Sample Received on	:	25.07.2015
Date of Testing	:	30.07.2015

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	80.00	0.395	2514.65	1.60	0.960	32.10	16.35	17.66	16.95	21.19
2	50.00	81.00	0.400	2515.04	1.62	0.970	32.30	16.45	17.77	17.23	21.54
3	50.00	82.00	0.406	2521.64	1.64	0.965	33.25	16.93	18.29	17.65	22.06

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